Customer No.: 31561 Application No.: 10/065,750 Docket No.: 8711-US-PA

AMENDMENTS

 (currently amended) A method for fabricating a nitride read-only memory, comprising: forming a silicon oxide/silicon nitride/silicon oxide (ONO) stacked layer on a substrate, the ONO stacked layer consisting of a bottom oxide layer, a silicon nitride layer and a top oxide layer;

forming a protective layer on the ONO stacked layer, wherein a thickness of the protective layer is smaller than 50Å;

patterning the protective layer and the ONO stacked layer to form a plurality of stacked patterns, wherein an etching rate of the protective layer is lower than an etching rate of the top oxide layer; and

removing the protective layer.

- 2. (original) The method of claim 1, wherein removing the protective layer comprises using wet etching to remove the protective layer.
- 3. (original) The method of claim 1, wherein a thickness of the bottom oxide layer is about 50~100Å.
- 4. (original) The method of claim 1, wherein a thickness of the silicon nitride layer is about 55~80Å.
- 5. (original) The method of claim 1, wherein a thickness of the top oxide layer is about 70~1.20Å.

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6. (original) The method of claim 1, the protective layer comprises silicon nitride.

Claim 7: canceled

8. (original) The method of claim 1, further comprising:

performing an ion implantation to form a plurality of buried bit lines in the substrate between the stacked patterns;

forming an insulator on each buried bit line; and

forming a plurality of word lines on the substrate.

- 9. (original) The method of claim 8, wherein the ONO stacked layer is patterned until a portion of the bottom oxide layer is exposed.
- 10. (original) The method of claim 9, wherein the exposed bottom oxide layer is removed after the ion implantation is performed.
 - 11. (original) The method of claim 8, wherein the insulator comprises silicon oxide.
 - 12. (original) The method of claim 8, wherein the word lines comprise polysilicon.
 - 13. (original) A method for fabricating a nitride read-only memory, comprising:

forming a silicon oxide/silicon nitride/silicon oxide (ONO) stacked layer on a substrate, the ONO stacked layer consisting of a bottom oxide layer, a silicon nitride layer and a top oxide layer,

forming a protective layer on the ONO stacked layer, the protective layer having a thickness smaller than 50Å;

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patterning the protective layer and the ONO stacked layer to form a plurality of stacked patterns, wherein an etching rate of the protective layer is lower than an etching rate of the top oxide layer;

performing an ion implantation to form a plurality of buried bit lines in the substrate between the stacked patterns;

forming an insulator on each buried bit line; and

forming a plurality of word lines on the substrate.

- 14. (original) The method of claim 13, wherein a thickness of the bottom oxide layer is about 50~100Å.
- 15. (original) The method of claim 13, wherein a thickness of the silicon nitride layer is about 55~80Å.
- 16. (original)The method of claim 13, wherein a thickness of the top oxide layer is about 70~120Å.
 - 17. (original) The method of claim 13, the protective layer comprises silicon nitride.
 - 18. (original) The method of claim 13, the insulator comprises silicon oxide.
 - 19. (original) The method of claim 13, wherein the word lines comprise polysilicon.
- 20. (original) The method of claim 13, wherein the ONO stacked layer is patterned until a portion of the bottom oxide layer is exposed.
- 21. (original) The method of claim 20, wherein the exposed bottom oxide layer is removed after the ion implantation is performed.